

FIG. 1

9R95

INCREASING
FLEXIBILITY,
INCREASING
COMPLEXITY

INCREASING
EASE OF USE

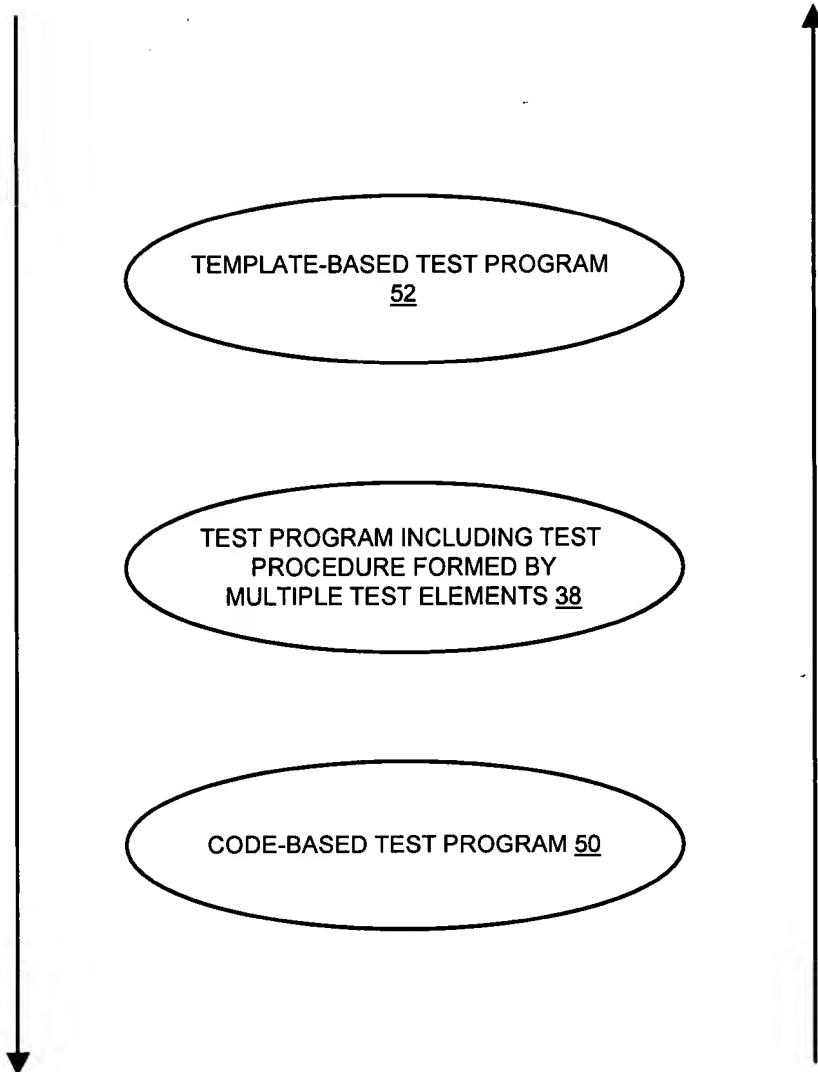


FIG. 2

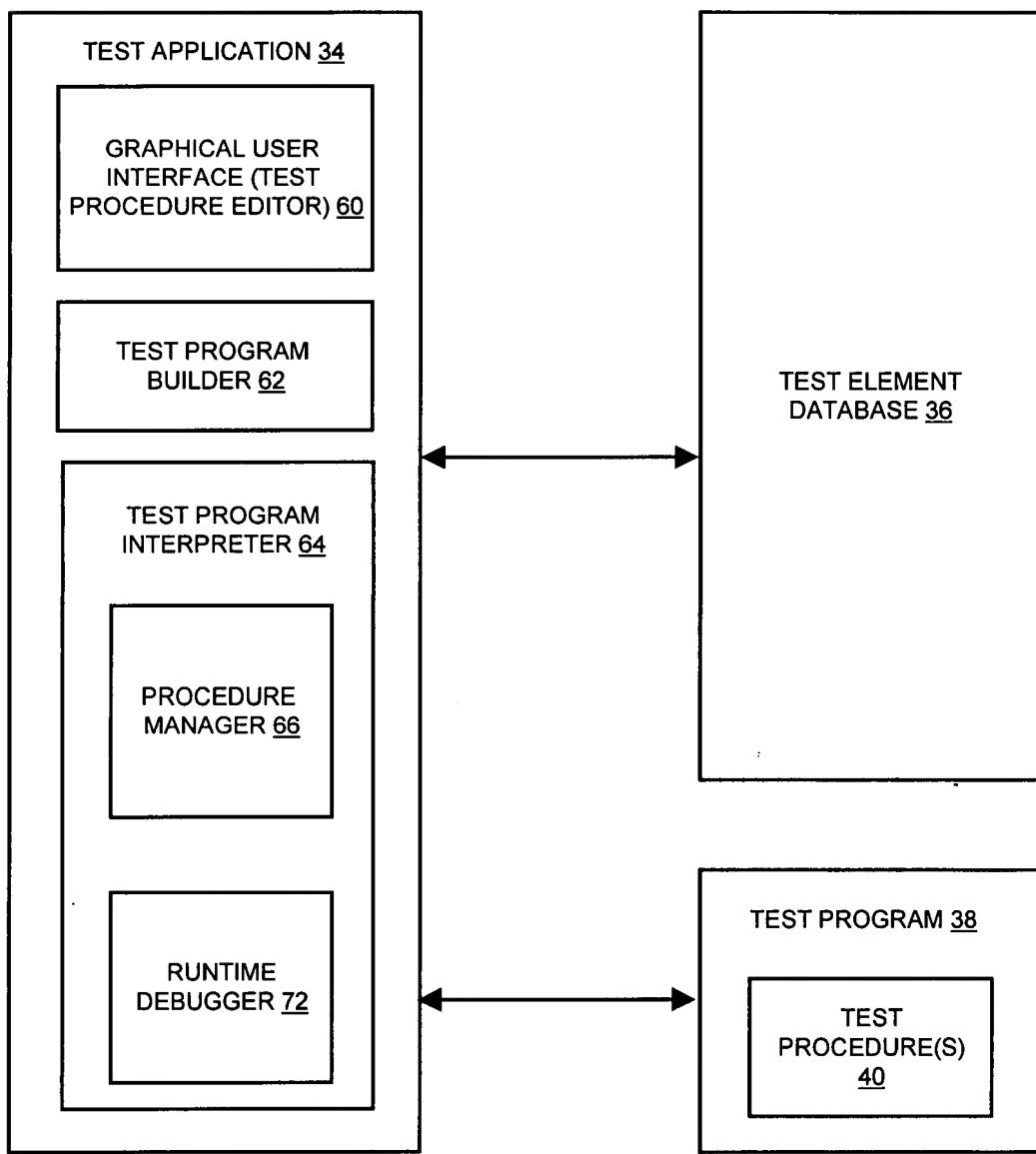


FIG. 3

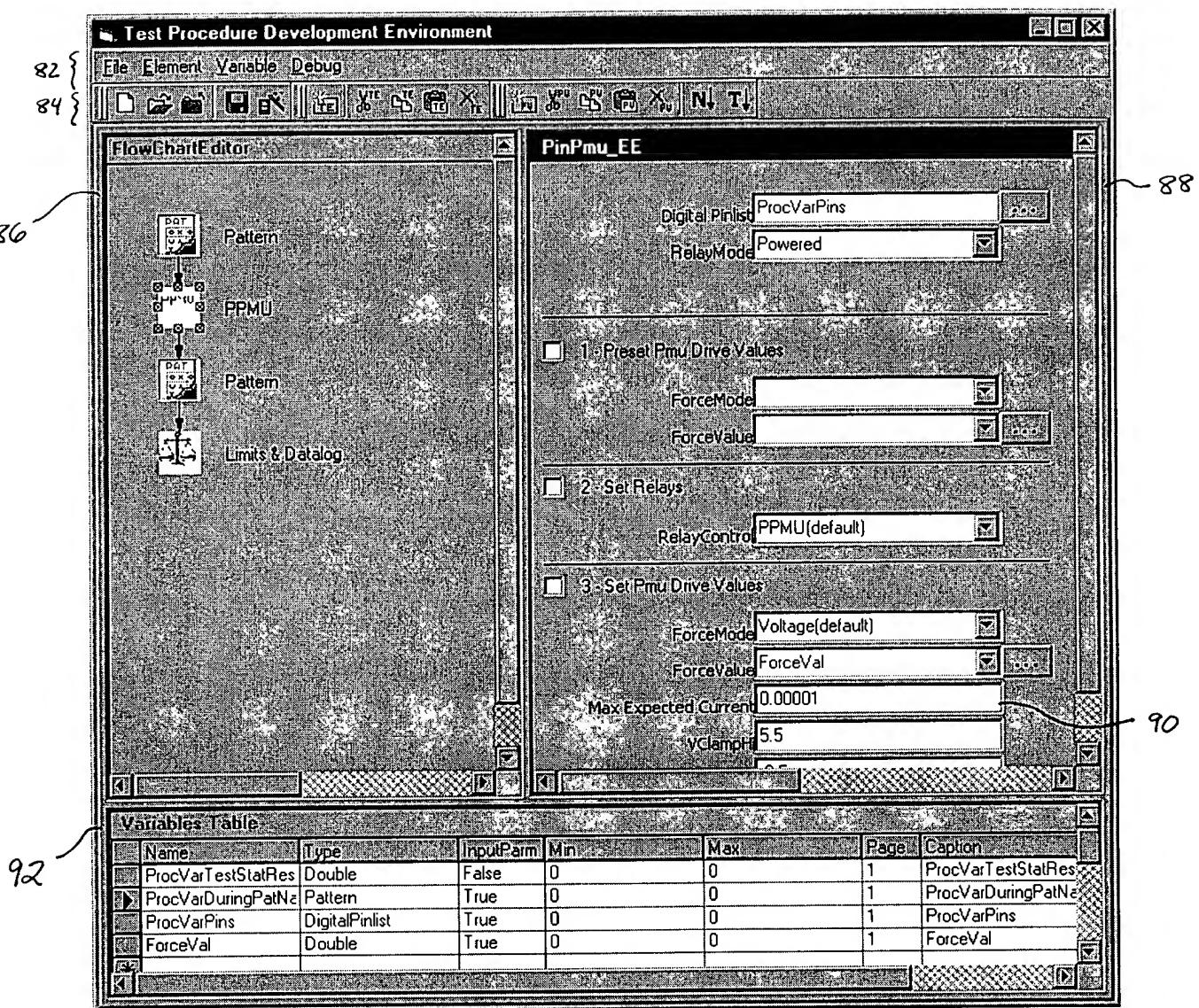


FIG. 4

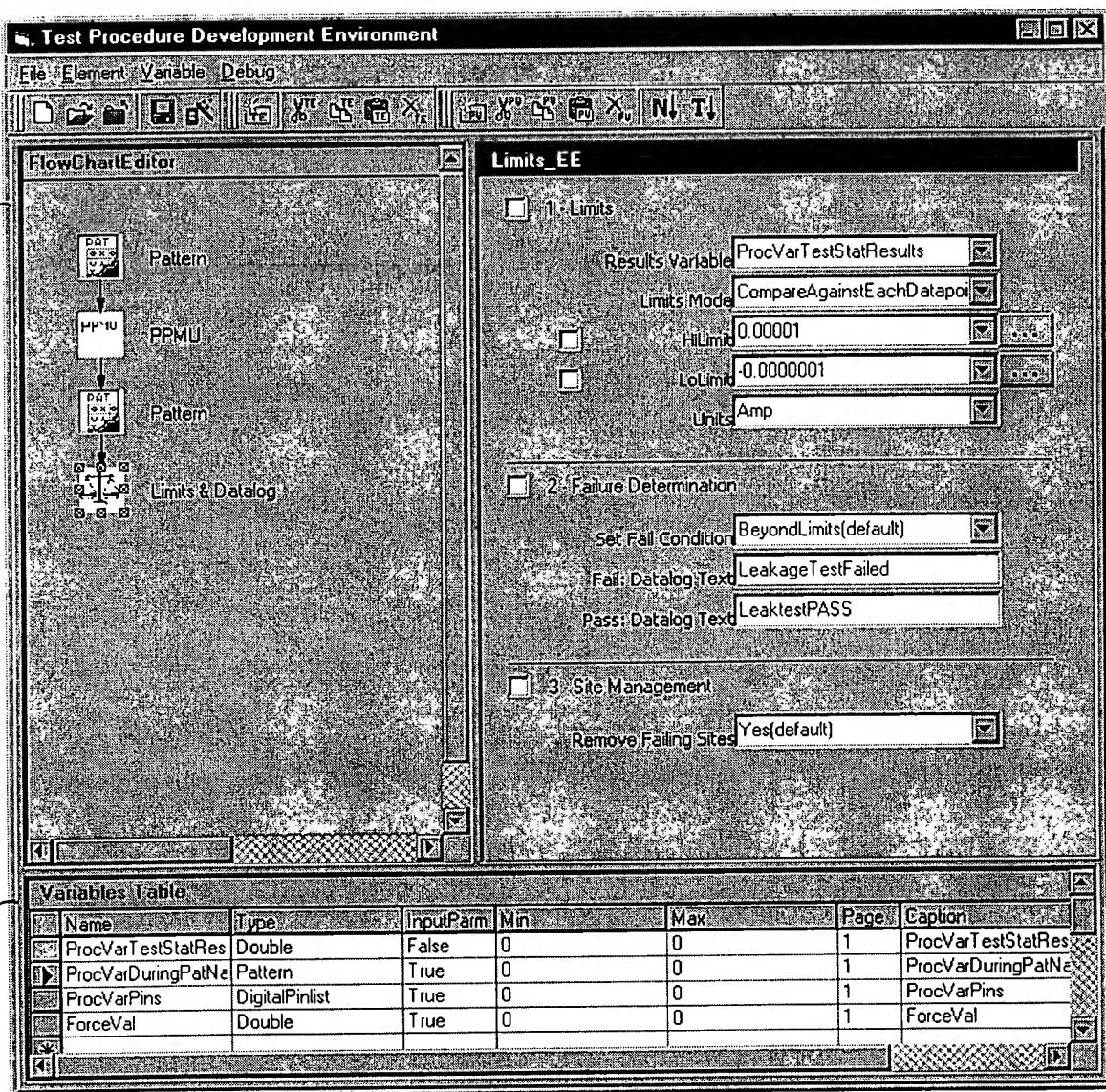
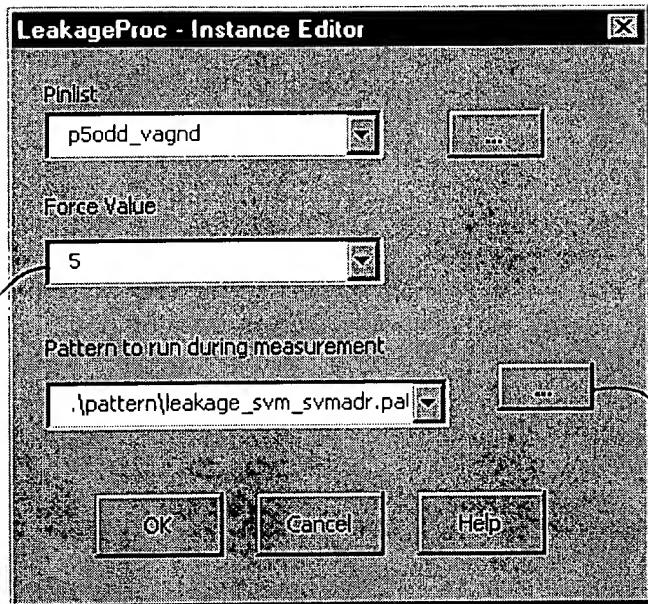


FIG. 5

094274-101299

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FIG. 6

Microsoft Visual Basic - Element.xls (running) - [PinPmu_E (Code)]

File Edit View Insert Format Debug Run Tools Window Help

Ln 50, Col 1

(General) TestElement

```
'3 - Set Drive Values
If (SetForceValue.ArgumentStr <> TL_C_EMPTYSTR) And_
 (SetIMagnitudeValue.ArgumentStr <> TL_C_EMPTYSTR) Then
 With TheHdw.pins(PinList.ArgumentValue)
    If CStr(SetForceMode.ArgumentValue) = TL_C_CURRENT Then
        'force current
        If CStr(VClampLo.ArgumentValue) <> TL_C_EMPTYSTR Then
            Call .PinLevels.ModifyLevel(chVCL, CDbi(Val(VClampLo.ArgumentValue)))
        End If
        If CStr(VClampHi.ArgumentValue) <> TL_C_EMPTYSTR Then
            Call .PinLevels.ModifyLevel(chVCH, CDbi(Val(VClampHi.ArgumentValue)))
        End If
        If CStr(SetRelayControl.ArgumentValue) <> tl_GetIndexof(TL_C_PPRCPFSTR) Then
            te_IrangeIdx = tl_te_GetBestRange(SetForceValue.ArgumentValue, TheHdw.PPMU.ForceIRangeList,
            'set the Ppmu in a current forcing mode, and voltage measure mode
            .PPMU.ForceCurrent(te_IrangeIdx) = SetForceValue.ArgumentValue
        If (VClampLo.ArgumentStr <> TL_C_EMPTYSTR) Or (VClampHi.ArgumentStr <> TL_C_EMPTYSTR) Then
            'if clamps are used, then the PE relay is closed, and this then
            ' requires that the current loads be set to zero.
            Call .PinLevels.ModifyLevel(chISource, 0)
            Call .PinLevels.ModifyLevel(chISink, 0)
        End If
    End If
    If CStr(SetRelayControl.ArgumentValue) = tl_GetIndexof(TL_C_PPRCPFSTR) Then
        te_IrangeIdx = tl_te_GetBestRange(0, TheHdw.PPMU.ForceIRangeList, True)
        'Override Functional Load levels on Pin Electronics
        ' set the PPMU itself to force OA
        .PPMU.ForceCurrent(te_IrangeIdx) = 0#
        ' Modify programmed load on Pin Electronics
        If CDbi(Val(SetForceValue.ArgumentValue)) > 0 Then
            ' set VT to ensure that load will be applied
            Call .PinLevels.ModifyLevel(chVT, TL_MAX_VT_LEVEL)
            ' set the load current
            Call .PinLevels.ModifyLevel(chISource, SetForceValue.ArgumentValue)
        Else
            ' set VT to ensure that load will be applied
    End If
End If
```

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FIG. 7

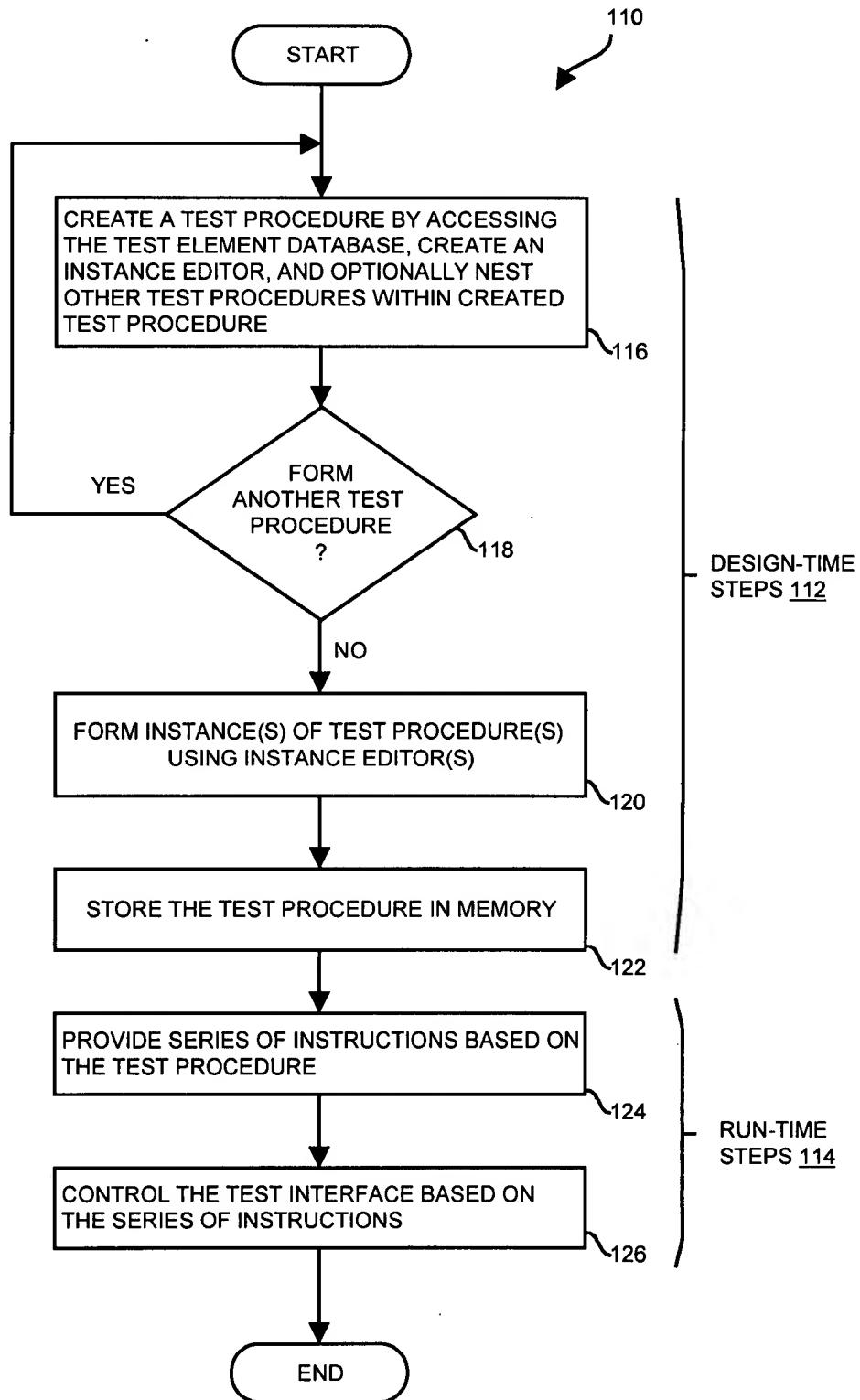


FIG. 8

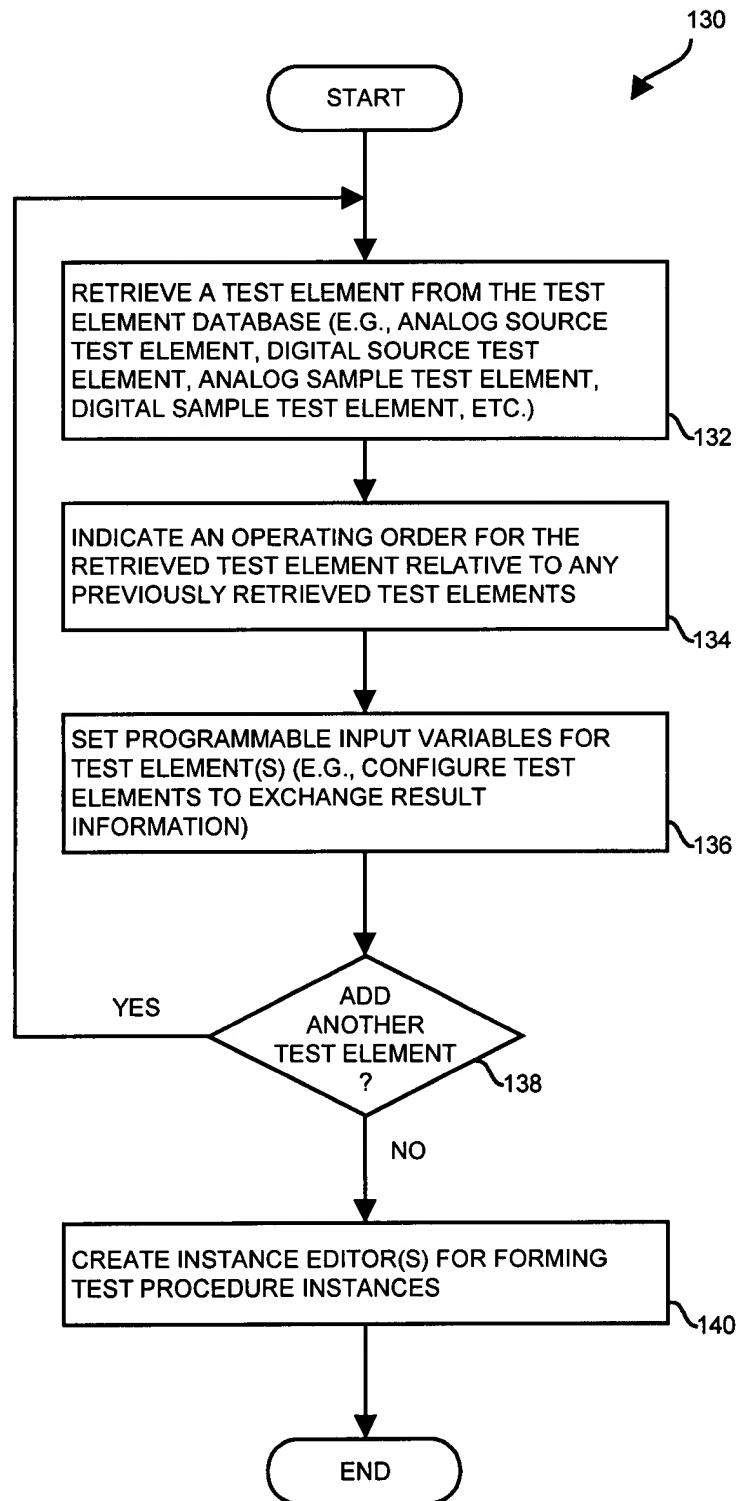


FIG. 9